

PATENT

Applicant: VALEO VISION

Inventors: Maurice MILGRAM, Didier DUMONCEL, Catherine ACHARD,
William IVALDI

ABSTRACT

The invention concerns a method of detecting from a vehicle a bend on a road comprising a surface (1) and road edges (2, 3), comprising the following operations:

- taking an image of a road scene unfolding in front of the vehicle and at least partly illuminated by the vehicle,
- determining, for each pixel in the image, a light decrease gradient,
- analysing these decrease gradients and determining an image of the road edges,
- mathematically discriminating the decrease gradients from the image of the road edges,
- analysing this discrimination and determining the angle of the bend.

The invention also concerns a system for implementing the method of the invention comprising a camera (10) mounted in the vehicle, an image processing unit (20) and a neural network (21).

Figures 1, 2 and 3